



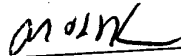
PATENT
Atty. Docket No.: 29634/38405-A

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Alireza Gharavi
Serial No.: 10/606,132
Filed: June 25, 2003
Title: "Grating and Polymer-Based Optical
Attenuators and Modulators"
Group Art Unit: Not Yet Assigned
Examiner: Not Yet Assigned

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to herein as enclosed herewith are being deposited with the United States Postal as first class mail on September 25, 2003 in a postage prepaid envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.


Mark H. Hopkins, Ph.D.
Registration No.: 44,775
Agent for Applicant

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir or Madam:

Pursuant to 37 CFR 1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached form PTO/1449. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is being filed within 3 months of the filing date of the new patent application.

The citation of the references disclosed in this Information Disclosure Statement is not intended to constitute an admission that any patent, publication or other


information referred to therein is "prior art" for this invention, or "material" pursuant to 37 CFR 1.56, unless specifically designated as such.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

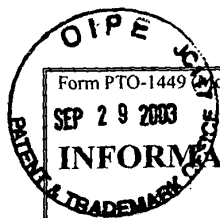
The Commissioner is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 13-2855. A duplicate copy of this paper is enclosed.

Dated: September 25, 2003

Respectfully submitted,

By 
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Form PTO-1449 (Modified)

SEP 29 2003

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Applicant(s)

Gharavi *et al.*

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Art Unit

Unassigned

U.S. PATENT DOCUMENTS

Examiner Initials		Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate
	A1	5,887,116	03/23/1999	Grote	385	2	06/11/1997
	A2	US-2001-0046363	published 11/29/2001	Purchase <i>et al.</i>	385	140	02/16/2001
	A3	US-2002-0009274	published 01/24/02	Gharavi	385	122	03/06/2001
	A4	US-2002-0018636	published 02/14/2002	Bischel <i>et al.</i>	385	140	08/01/2001
	A5	US-2002-0048073	published 04/25/2002	Kawawada <i>et al.</i>	359	230	08/31/2001
	A6	US-2002-0063942	published 05/30/02	Fischer <i>et al.</i>	359	286	10/30/2001

FOREIGN PATENT DOCUMENTS

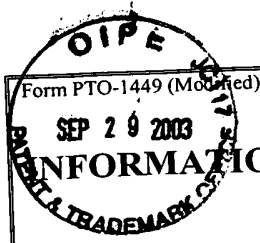
Examiner Initials		Document Number	Publication Date	Country	Class	Subclass	Translation	
							Yes	No
	B1	WO 01/06240	01/25/01	PCT	G01	21/77		
	B2	WO 01/06305	01/25/01	PCT	G02F	--		
	B3	WO 02/33005	04/25/02	PCT	C09B	29/01		
	B4	WO 02/071557	09/12/02	PCT	H01S	3/063		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

C1	Levy <i>et al.</i> , "Reflection Method for Electro-optical Coefficient Determination in Stratified Thin film structures," <i>Mol. Cryst. Liq. Cryst. Sci. Technol.-Sec.B: Nonlinear Optics</i> 4: 1-19 (1993).
C2	Reinisch <i>et al.</i> , "Fast Pockets Light Modulator Using Guided Wave Resonance," <i>Applied Optics</i> 24: 2001 (1985).
C3	Saadeh <i>et al.</i> , "A New Synthetic Approach to Novel Polymers Exhibiting Large Electrooptic Coefficients and High Thermal Stability," <i>Macromolecules</i> 33: 1570 (2000).
C4	Saadeh <i>et al.</i> , "Highly Stable, Functionalized Polyimides for Second Order Nonlinear Optics," <i>J. Mater. Chem.</i> 9: 1865 (1999).
C5	Saadeh <i>et al.</i> , "A Multifunctional Photorefractive Material Showing High Optical Gain and Diffraction Efficiency," <i>Advanced Materials</i> 10(12): 927-931 (1998).
C6	Saadeh <i>et al.</i> , "Polyimides with a Diazo Chromophore Exhibiting High Thermal Stability and Large Electrooptic Coefficients," <i>Macromolecules</i> 30(18): 5403-5407 (1997).
C7	Saadeh <i>et al.</i> , "Polyimides with a Diazo Chromophore Exhibiting Large Electro-optic Coefficients," <i>Polymer Preprints</i> 38: 552 (1997).

EXAMINER:

DATE CONSIDERED:



Form PTO-1449 (Modified)

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C8	Savage, N., "Too Much Fiber?" <i>Optics & Photonics News</i> , p.32-37 (March 2002).
C9	SBIR Abstract, SBIR Phase I Grant to Alireza Gharavi, "Mid-Infrared Stacked Waveguide Laser Arrays with Organic Light Emitting Diodes", Fiscal Year 2000 [available at http://www.winbmdo.com/scripts/sbiabstract.asp].
C10	SBIR Abstract, SBIR Phase I Grant to Alireza Gharavi, "Optical Materials: Water-Soluble Polyimides", Fiscal Year 2002 [available at http://www.winbmdo.com/scripts/sbir/abstract.asp].
C11	Sekkat <i>et al.</i> , "Room-Temperature Photoinduced Poling and Thermal Poling of a Rigid Main-Chain Polymer with Polar Azo Dyes in the Side Chain," <i>Chem. Mater.</i> 7: 142-147 (1995).
C12	STTR Abstract, STTR Phase I Grant to Alireza Gharavi, "A Multi-Functional Optical Switch: a WDM, Add/Drop Multiplexer and Cross-Connect Device", Fiscal Year 1998 [available at http://www.winbmdo.com/scripts/sbir/abstract.asp].
C13	Van, J., "Broadband dream hits snag: Americans unwilling to pay premium for high-speed web access," <i>Chicago Tribune</i> , B6, Nov. 12, 2001.
C14	Yu <i>et al.</i> , "Highly Stable Copolyimides for Second-Order Nonlinear Optics," <i>Macromolecules</i> , 29: 6139-6142 (1996).
C15	Yu <i>et al.</i> , "Multifunctional Polymers Exhibiting Photorefractive Effects," <i>Accounts of Chemical Research</i> , 29(1): 13-21 (1996).
C16	Yu <i>et al.</i> , "A Generic Approach to Functionalizing Aromatic Polyimides for Second-Order Nonlinear Optics," <i>Macromolecules</i> , 28: 784 (1995).
C17	Yu <i>et al.</i> , "Novel second-order nonlinear optical, aromatic, and aliphatic polyimides exhibiting high-temperature stability," <i>Appl. Phys. Lett.</i> , 66: 1050 (1995).
C18	Yu <i>et al.</i> , "Development of Functionalized Polyimides for Second-Order Nonlinear Optics," <i>ASC Symposium Series No. 601</i> , Chapter 13, 172 (1995).
C19	Yu <i>et al.</i> , "Novel Aromatic Polyimides for Nonlinear Optics," <i>Polymer Preprints</i> , 36: 39 (1995).
C20	Yu <i>et al.</i> , "Novel second-order nonlinear optical polyimides," <i>SPIE Proceedings</i> , 2527: 12 (1995).
C21	Yu <i>et al.</i> , "Novel Aromatic Polyimides for Nonlinear Optics," <i>J. Am. Chem. Soc.</i> , 117: 11680 (1995).

EXAMINER:

DATE CONSIDERED: